

CLAIMS

1. An isolated DNA molecule selected from:

(a) a pig CD59 gene or its complementary strand,

5 (b) a sequence substantially homologous to, or capable of hybridising to, a substantial portion of a gene defined in (a) above,

(c) a molecule coding for a polypeptide having the sequence of Figure 2 (SEQ ID No. 2),

10 (d) genomic DNA corresponding to a molecule in (a) above; and

(e) a fragment of a molecule defined in any of (a), (b), (c), or (d) above, other than the fragment described SEQ ID No. 1.

15 2. An RNA molecule comprising an RNA sequence corresponding to a DNA sequence according to Claim 1.

3. A nucleic acid probe having a sequence according to Claim 1, and optionally including a label.

4. An isolated, purified, or recombinant polypeptide  
20 comprising a pig CD59 protein or a mutant, variant or portion thereof or encoded by a sequence according to Claim 1 or a variant thereof having substantially the same activity as the pig CD59 protein.

5. A polypeptide according to Claim 4, wherein the pig CD59 protein has the amino acid sequence defined in Figure 2 (SEQ ID No. 2).

6. An anti-pig CD59 monoclonal antibody or a labelled anti-pig CD59 monoclonal antibody.

7. A vector comprising the nucleic acid sequence of Claim 1.

8. A host cell transfected or transformed with a vector according to Claim 7.

9. A non-human transgenic animal wherein the transgene comprises the DNA of Claim 1.

10. Nucleic acid primers selected from the following, as herein defined:

A-Pig : C-Pig (SEQ ID No.3 : SEQ ID No.4)

Q<sub>0</sub> : Q<sub>1</sub> (SEQ ID No.6 : SEQ ID No.7)

Q<sub>T</sub> (SEQ ID No. 5)

D-Pig : E-Pig (SEQ ID No.8 : SEQ ID No.9)

RT-Pig (SEQ ID No.10)

F-Pig : G-Pig (SEQ ID No.11 : SEQ ID No.12)

pigxP-1 : PigxP-2 (SEQ ID No.13 : SEQ ID No.14)